

**AMENDMENTS TO THE CLAIMS:**

1-15. (Cancelled).

16. (New) A process for preparing copolymers of ethylene and alpha olefins having 3 to 10 carbon atoms having

(a) a density in the range 0.900 to 0.940

(b) an apparent Mw/Mn of 2 - 3.4

(c)  $I_{21}/I_2$  from 16 to 24

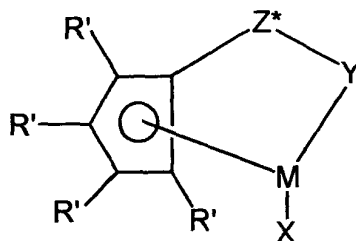
(d) activation energy of flow from 28 to 45 kJ/mol

(e) a ratio  $E_a(\text{HMW})/E_a(\text{LMW}) > 1.1$ , and

(f) a ratio  $g'(\text{HMW})/g'(\text{LMW})$  from 0.85 to 0.95,

said process carried out in the presence of a catalyst system comprising

(a) a metallocene complex of the general formula



wherein:

R' each occurrence is independently selected from hydrogen, hydrocarbyl, silyl, germyl, halo, cyano, and combinations thereof, said R' having up to 20 non-hydrogen atoms, and optionally, two R' groups (where R' is not hydrogen, halo or

cyano) together form a divalent derivative thereof connected to adjacent positions of the cyclopentadienyl ring to form a fused ring structure;

X is a neutral  $\eta^4$  bonded diene group having up to 30 non-hydrogen atoms, which forms a  $\Rightarrow$  complex with M;

Y is -O-, -S-, -NR<sup>\*</sup>-, -PR<sup>\*</sup>-,

M is titanium or zirconium in the + 2 formal oxidation state;

Z<sup>\*</sup> is SiR<sup>\*</sup><sub>2</sub>, CR<sup>\*</sup><sub>2</sub>, SiR<sup>\*</sup><sub>2</sub>SIR<sup>\*</sup><sub>2</sub>, CR<sup>\*</sup><sub>2</sub>CR<sup>\*</sup><sub>2</sub>, CR<sup>\*</sup>=CR<sup>\*</sup>, CR<sup>\*</sup><sub>2</sub>SIR<sup>\*</sup><sub>2</sub>, or GeR<sup>\*</sup><sub>2</sub>,

wherein:

R<sup>\*</sup> each occurrence is independently hydrogen, or a member selected from hydrocarbyl, silyl, halogenated alkyl, halogenated aryl, and combinations thereof, said R<sup>\*</sup> having up to 10 non-hydrogen atoms, and optionally, two R<sup>\*</sup> groups from Z<sup>\*</sup> (when R<sup>\*</sup> is not hydrogen), or an R<sup>\*</sup> group from Z<sup>\*</sup> and an R<sup>\*</sup> group from Y form a ring system,

(b) a borate, and

(c) a support.

17. (New) The process of claim 16 wherein the metallocene complex is a titanium complex.

18. (New) The process of claim 17 wherein the metallocene complex is (t-butylamido) (tetramethyl- $\eta^5$  - cyclopentadienyl) dimethyl silanetitanium- $\eta^4$  -1,3-pentadiene.

19. (New) The process of claim 16 wherein the borate comprises the reaction product of (A) an iconic compound comprising a cation and an anion wherein the anion

has at least one substituent comprising a moiety having an active hydrogen and (B) an organometal or metalloid compound wherein the metal or metalloid is from Groups 1-14 of the Periodic Table.

20. (New) The process of claim 16 wherein the support is silica.

21. (New) The process of claim 16 wherein the alpha olefin is 1-hexene.

22. (New) The process of claim 16 wherein the process is carried out continuously in the gas phase.